

# Agricultural REVIEW

Volume: 96 - No. 7

July 2021

Raleigh, N.C.

## Upcoming Ag Review deadlines

The advertising deadline follows:

- July 1 for August
- Aug. 2 for September
- Sept. 1 for October
- Oct. 1 for November,
- Nov. 1 for December

## Waggett named new assistant commissioner

Agriculture Commissioner Steve Troxler recently announced the promotion of Christina “Chrissy” Waggett of Durham to assistant commissioner for consumer protection.

She previously served as an agricultural program specialist and federal liaison for the department and replaced longtime assistant commissioner Joe Reardon who retired June 30.

“I am always pleased to have well-qualified and dedicated staff members step into new leadership roles at the department, and I am especially proud that Chrissy becomes the department’s first female assistant commissioner,” Troxler said. “Throughout her tenure with the department, Chrissy has excelled in every job she has held, and she has worked effectively and successfully with our federal counterparts on many sensitive and high level issues. Her work has directly benefitted North Carolina farmers and

agribusinesses.”

The Lenoir native graduated from the University of North Carolina at Chapel Hill as a double-major with bachelor’s degrees in international studies and political science.

Waggett worked her way up through the department during her 15 years of service, starting as a summer intern before being hired as the commercial space administrator for the N.C. State Fair. She has served as an administrative assistant to the assistant commissioner, an administrative officer and an agricultural programs specialist and federal liaison.

She is active in the community as a member of The Summit Church in Chapel Hill.

Waggett and her husband Blair have three children. She is the daughter of Vicki and Sammy Williams of Lenoir.



## Century Farm program looking for new members; reunion planned for Oct. 18

The North Carolina Department of Agriculture’s Century Farm Program is looking for farms that have been in continuous family ownership for 100 years or more to join the nearly 2,000 farms in the program. The program exists to honor farms for their longstanding contributions to North Carolina’s rich agricultural heritage.

Every four years, the N.C. State Fair hosts a reunion to recognize Century Farm families. Because the State Fair was canceled in 2020, the reunion has been moved to this year and will be held Oct. 18, said Agriculture Commissioner Steve Troxler. and will celebrate the 50th anniversary of the Century Farm Program.

“Being part of our Century Farm program is something to be very proud of, as it speaks to the hard work and dedication families invest in keeping their farmland,” Troxler said. “I encourage anyone who is eligible to apply to this program, and I encourage all members to plan to attend this year’s reunion. Last year marked the 50th anniversary of the Century Farm program and we were looking forward to that reunion. COVID only postponed the celebration, it didn’t cancel it. We will still celebrate 50 years, plus one, of this special program.”

There are 1,950 member farms in the program, with 97 of the state’s 100

counties represented. “We’d love to have Century Farms in all 100 counties, so if you have a qualifying farm in your family or know of one in Dare, Graham and Swain counties, please fill out an application,” Troxler said.

Century Farms represent a small fraction of the total 52,000 farms in North Carolina. The Brown Family from Yadkin County is one of the most recent additions to the program. The farm, which has added a wedding venue called The Barn at Cranberry Creek, is owned by Darin Brown, Dwayne and Dana Brown, and Neil and Christy Brown. The property has been in their family for five generations, dating back to 1898.

Caring for that land has always been “a way of life” for their family, said Dwayne Brown. They are just one of the many families who are proud to be a part of this program and carry on their family’s farming legacy.

To be eligible for the program, the farm must be in continuous ownership by your family for 100 years or more. This can be determined from an abstract of title or original records such as original deed or land patents. Other authentic land records may be acceptable in certain cases. Title to the property today must reside with a blood relative of the original owner, or a legally adopted child of the descendant. Continuous residence in the (See Century Farms, pg. 4)

## From the tractor

*by Agriculture Commissioner Steve Troxler*



**Commissioner Troxler**

Efforts continue statewide to boost vaccination rates for COVID-19. Simply put, please get your shot if you have not already done so. Across the United States, there are an increasing number of cases being reported that are linked to the Delta variant. Unvaccinated Americans are especially at risk and examples of new cases are popping

up across the country every day in places with low vaccination rates. I encourage you to get the shot for everyone you love and care about.

I also wanted to mention information I came across recently regarding cost-share and support resources offered by the N.C. Agromedicine Institute. I thought many farmers may find this information useful.

Cost-share funds are available for migrant housing internet connectivity, and for transportation, sanitation equipment and supplies.

A cost-share of up to \$1,000 per migrant housing unit is available for the purchase of hot spots, routers, modems, antennae’s, set-up fees and service payments.

The goal with internet connectivity is to allow farmers to have an easy way to communicate with workers about outbreaks and emergencies,

with the added benefit of workers being able to access telemedicine and health resources.

Farmers can also purchase PPE for pesticide application through the institute at 50 percent of the state contract rate. Additionally, the institute can assist with counseling sessions for farmers, farm family members and farmworkers who are uninsured or underinsured.

I have talked before about farm stress and I don’t know that 2020 provided any relief as farmers have dealt with added worries during the COVID pandemic.

The Agromedicine Institute works with individuals to identify a counselor if they don’t already have one and then will pay directly for services.

This is available for farmers, farm family members and farmworkers who are either uninsured or under insured.

These are all great resources for farmers, ag workers and farm families and speak to the core mission of the institute, which is to promote the health and safety of farmers, fishermen, foresters, their workers and their families. Its primary goals are reducing injury and illness and to make farming, logging and fishing workplaces safe and healthy for all. The Agromedicine Institute is based in Greenville, but it provides services to farmers, fishermen and foresters in all 100 counties. Institute partners include East Carolina University, N.C. State University and N.C. A&T State University. We are fortunate to have this resource available to farmers, fishermen and foresters.

To learn more about the Institute’s programs and services, go online to [www.ncagromedicine.org](http://www.ncagromedicine.org) or call 252-744-1008.



## Agricultural Review

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# New director named for NCFSWC

Amanda Egdorf-Sand of Randleman has been named executive director of the N.C. Foundation for Soil and Water. Egdorf-Sand, administrative officer and program manager for NCFSWC since April of 2020, replaces Michelle Lovejoy who left in May to join the Environmental Defense Fund.

“Our new executive director Amanda Egdorf-Sand is very impressive in her knowledge of conservation and has previous experiences that will be valuable to her in this new role,” said NCFSWC President Jimmy Gentry. “The Board of Directors is quite excited to have her leading the Foundation as we continue to do our part in conserving soil and water and enhancing the environment.”

Egdorf-Sand earned a bachelor’s degree in environment and natural resources with a concentration in water and land management from the University of Minnesota. In addition to her work with NCFSWC for more than a year, Egdorf-Sand has been working with the nonprofit Abundance NC. She spent three years with the Chatham (NC) Soil



Egdorf-Sand

& Water Conservation District as a soil conservation specialist and also worked at Piedmont Biofuels.

The Minnesota native and her husband Joseph have two sons. They are the co-owners of Joseph Sand Pottery, a unique wood-fired ceramics business in Randolph County. Egdorf-Sand

is currently transitioning into the full-time executive director role.

Gentry thanked Lovejoy for her leadership.

“Among her latest initiatives was engaging the Foundation in agricultural resiliency which included a project to help agricultural producers better prepare for disasters and recover from those storms,” Gentry said. “During her time with us, Michelle earned a great deal of respect for her expertise and the exceptional job that she did.”

Chartered as a corporation in 1999, the Foundation is a public non-profit tax-exempt organization and its mission is to promote, protect and improve North Carolina soil and water resources for the enhancement of economic growth and stewardship of the natural environment. NCFSWC has raised over \$15 million and leveraged over \$16 million to implement projects addressing priority natural resource issues and building conservation capacity.

# Concern grows after non-native Asian longhorned beetle found in SC

Gorgeous, vibrant maple trees are a common sight in North Carolina. These trees are some of the first to show fall color, painting our landscape. They are the second most common tree in our forests, and maples are also a favorite street or landscape tree. If you love the oranges and reds maple trees flash each fall, you may be dismayed to learn that the Asian longhorned beetle, an invasive pest of maples and other hardwoods, is getting uncomfortably close to North Carolina.

The Asian longhorned beetle is native to Asia. It feeds on about 29 species of hardwood trees, but maple is its favorite. It tunnels deeply into trees, feeding on tissues and eventually killing the trees by cutting off nutrient and water flow and reducing structural integrity.

In the U.S., the beetle was first detected in New York in 1996. Infestations have popped up sporadically in the Northeast and Midwest, but its recent discovery in South Carolina puts it closer to North Carolina than ever before. To protect the trees and forest ecosystems that we love, it is critical that infestations be reported and treated quickly. To accomplish this, we need all North Carolinians to be on the lookout—able to recognize and quickly report this beetle if you see it.

Asian longhorned beetle adults are quite eye-catching. Their shimmery black bodies are covered with white spots, and they have long antennae with white stripes. When these adults reach a suitable host tree, they gnaw pits into the bark to lay eggs. Once these eggs hatch, the immatures, called larvae, bore into the tree. The hungry larvae can bore deep within trees, reaching the xylem and heartwood to feed. Their unwelcome feasting disrupts nutrient flow, which weakens the tree and eventually causes death. The extensive tunneling leads to branches and trees that become prone to breaking, which is especially concerning in the Southeast where hurricanes are more prevalent. Clearly, we want to keep this pest from reaching our forests!

To stop the Asian longhorned beetle, early detection is

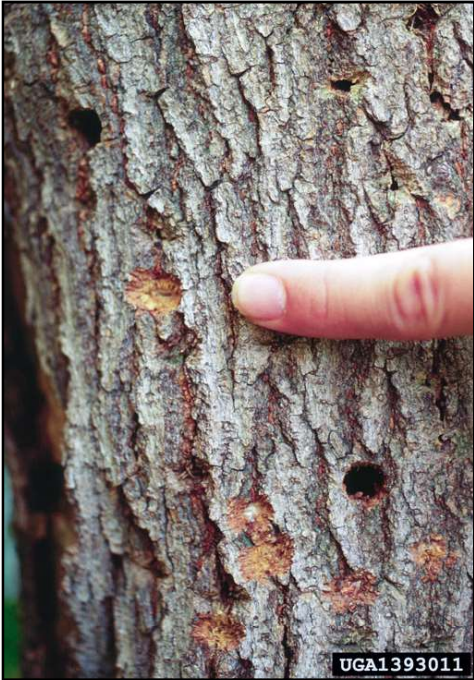


Above, the Asian longhorned beetle is highly destructive pest, feeding on 29 species of hardwoods, particularly maple trees. The recent detection in South Carolina has heightened concerns about it moving into North Carolina. The gnaw marks and round exit holes on the tree at right are signs of the Asian longhorned beetle.

critical. You can help stop this beetle by being on the lookout for signs and symptoms. Signs and symptoms include:

- Perfectly round exit holes (about the width of a pencil eraser);
- Branch breakage;
- Gnawed egg-laying pits;
- Bark cracking;
- Frass, excrement that looks like stringy sawdust, near the base of the tree; and,
- Early fall coloration

If you think you have spotted the beetle, it is important to report it so that it can be quickly eradicated. Unfortunately, management of the beetle is not a pretty sight. All infested host trees must be removed to stop the spread of this tree-killer. While it isn’t pleasant, this method has worked in several



areas, like Illinois and New Jersey.

The Asian longhorned beetle was detected in South Carolina in 2020. Previously, the closest infestation to North Carolina was in Ohio. Since the pest is new to the Southeast, we don’t know much about its life cycle in a warmer climate. The landscape near the infestation in South Carolina provides unique challenges for professionals attempting to remove the beetle. However, research is ongoing to learn more about the pest’s lifecycle along with potential management methods.

While the Asian longhorned beetle is scary, there is hope! You can spread the word about the Asian longhorned beetle and be on the lookout for its signs and symptoms. Since the pest can move through wood materials, it is also important to buy and burn local firewood. Hopefully, if it is in our state, we can catch this pest early, saving those beautiful maple trees.

# NCDA&CS employees honored for work with IMPEC grants

Agriculture Commissioner Steve Troxler recently recognized a team of employees that has had a huge impact on the state by helping to fix a food supply chokepoint. It’s a problem that became more obvious in the beginning of the COVID-19 pandemic – the state’s meat processors couldn’t keep up with demand. When the pandemic disrupted national food distribution, many North Carolinian meat and seafood raisers or producers and their customers turned to smaller

locally owned and operated meat and seafood processing facilities. However, many of those businesses couldn’t accommodate the surge in demand for the meat and seafood to be processed. Waitlists and order backlogs quickly grew to be a year long.

That prompted the North Carolina Department of Agriculture and Consumer Services to create the “Increasing Meat Production, Efficiency and Capacity” (IMPEC) grant program. It’s stated goal has been to support North Carolina’s animal agriculture

industry “by increasing efficiency and capacity of local small-scale meat processing facilities that will benefit the livestock producers, processors and consumers to ensure an uninterrupted supply of wholesome North Carolina meat products.”

The following seven NCDA&CS employees have been the team running the grant program:

- Joe Hampton, Agricultural Programs Specialist
- Sam Brake, Agricultural Program Specialist

– Allison Medlin, Administrative Assistant II

– Kelly McIver, Marketing Specialist III

– Jack Nales, Marketing Specialist

– John Aydtlett, Seafood Marketing Specialist

– Pete Anderson, Aquaculture Consultant

Commissioner Troxler recognized them with the Accomplishment in Team Excellence Award. “Everyone who was involved in the team continued to have another

job in the department,” Hampton said. “That’s what makes us unique is that we kept our other jobs and just came together to make this happen. Lots of divisions have had other people come together to help with this too.”

Because no one was hired specifically to manage the grant program, the millions of dollars in federal money sent to NCDA&CS wasn’t used for salaries or administrative costs, but instead all the federal (See Team Excellence, pg. 5)



# Ice cream and milk products earn Ayden dairy fans

In the heart of Ayden, stands a farm that many are familiar with and love for their high-quality dairy products. Although the family is a natural with dairy cattle today, their story actually started with a variety of other crops. Founded in 2011 by David and Neil Moye, Simply Natural Creamery originally started 30 years ago as a row crop operation, which is still a working aspect of the farm today. When the Moye's had children, they wanted to give them the opportunity to learn about and raise livestock. Thus their journey into dairy farming with Jersey cows began.

Jersey cows are not only known for their easy-going temperament, but they also give high-quality milk that is packed full of vitamins, nutrients, butterfat and A-2 Beta Case-in, making it easy to process for lactose-intolerant individuals. Today, the creamery is home to over 300 Jersey cows with 150 of them giving milk at a time. This October, the farm will celebrate its seventh year in the current milk processing facility. The Moye family uses this facility to process 8,000 gallons of milk a week and make their high-quality products, including chocolate milk, skim milk, ice cream, butter and more.

“One of the most exciting parts of my job is watching the baby calves being born each month,” said Natalie Aynes, manager of Simply Natural Creamery. “The birthing field is right across from our offices, and no matter how many times I have seen a baby calf being born, it is always amazing to be a part of the process of new life coming to the farm.”

Since the birthing field is so close to the office, where the ice-cream is served, customers can also experience the birth of a calf if visiting on the right day and time. “Sometimes that can create an interesting conversation for the parents to have with their children,” Natalie joked, “but it’s always a good educational piece for our customers to see the full process of our products from calf to carton.” All of the cows on the farm have names, from babies to mommas. According to Natalie, each baby calf name starts with the same letter as the name of the mother. “For example, if the mommas name is Sandy the calf’s name might be Storm or Sally,” she said, “this system is just a fun way for us to stay organized.”

Once the baby calves are born, the weening process begins on the mother cows timeline. “Some momma cows want to stay with their babies for a while before they are separated and others want to go to the milking parlor right away,” Natalie said, “we allow them to stay together until it is necessary that they be parted.” Just like humans, cows do not start producing milk until after they have had a calf of their own, which means that the front end of the process actually takes a bit of patience. “Most cows are usually impregnated between the ages of one and two,” Natalie



said, “which means that we don’t start getting milk from them until around two or three years after they are born. So, it takes a while to get a return on investment from them but it’s always worth it.” Once the cow has a calf, they will continue producing milk on a regular basis, taking breaks for a period in-between pregnancies.

Each day on the farm starts by feeding the cattle. A majority of the food given to the Jerseys each day is made on-site. Remember the row crop operation that started Simply Natural? It is still in operation today and is used to ensure that the dairy cows receive a well-balanced, healthy and nutritious diet. The farm veterinarian visits the farm on a routine basis to check the levels of products in the feed and make sure the animals are receiving all the nutrients they need. After feeding, the momma cows are milked three times a day, 4 a.m., noon and 8 p.m., in the 16-stall milking parlor. Per day, each cow will provide anywhere from 8 to 12 gallons of milk that is stored in a holding tank and delivered to the processing plant on-site.

The first step in the milk-making process is to standardize the milk. This step in the process separates the cream from the skim. The skim will be transferred into three different tanks and cream will be added back in at varying percentages to produce the different milk varieties, such as

whole, low-fat and skim. After that, the milk is pasteurized at the proper rate and time to maintain the milk’s high-quality taste. Finally, the milk is homogenized before being bottled to ensure the cream is kept in with the skim and doesn’t rise to the very top, giving it a consistent texture and flavor.

Once this three-step process is complete, the milk is bottled with a machine that can fill up to 21 cartons at a time. After bottling is complete, the cartons are then placed in a cooler until it is sold either to grocery stores or on-site at the facility. Although the milk products are extremely delicious, Simply Natural Creamery is most well known for its ice cream products, including the signature flavor, Cow Pattie.

The process to making ice-cream utilizes the cream from the farm. Raw cane sugar is added to the leftover cream as well as the flavor base for each ice cream variety, including strawberry, chocolate and mint. To date, Simply Natural Creamery produces 40 flavors of ice cream. Once the ice cream base is complete, it is placed into tubs and put in the freezer that sits at negative 15 degrees. The ice-cream will then be left in the cooler until sold to grocery stores or used on-site for visiting customers.

The most popular flavor of ice-cream sold on the farm is Butter Pecan, but a recent addition is giving it a little

competition, Peanut Butter Brownie. “This flavor utilizes real brownie bites, a brownie base and peanut butter,” Natalie said. “It is truly delicious.” Her favorite flavors are strawberry, which uses fresh N.C. berries, peanut butter, made with their fresh peanut butter, and Cow Pattie, featuring chocolate and peanut butter.

Although it can be difficult to manage the multiple moving parts of the dairy operation, Natalie wouldn’t trade a single day for the joy she feels in educating the public about dairy farming and providing them with high-quality products that they enjoy both on and off the farm. “We have tour groups come out 10 months out of the year and I love seeing their faces as we walk them through the process and teach them about how our products are made,” she said, “then seeing the joy on their faces as they eat our ice cream at the end is worth every struggle it took to get here. We even have some lactose intolerant individuals start crying as they realize our ice cream is something they too can enjoy due to the A-2 Beta Case-in that doesn’t hurt their stomach.”

Farm tours are offered every day. Monday through Friday, and run at 10 a.m. and noon by reservation only. On the weekends, however, tours are given hourly on a first-come, first-served basis. Customers can expect to see the cows in the field, the milking

process, the processing and bottling facility as well as the office locations and ice-cream shop. “Every part of our business is transparent and we are 100% honest with all of our customers,” Natalie said, “the only facility that is not shown on the tour is our ice-cream processing building because it has recently moved because of lack of space.” Tours are an hour and a half long and customers are encouraged to ask questions.

Products from Simply Natural Creamery can be found at grocery store chains across the state, which you can find on the farm’s website. They also have farm locations in Ayden, Greenville and Morehead City where products can be enjoyed while learning about the operation.

In the future, Simply Natural Creamery will continue working towards its mission of providing high-quality dairy products to customers across the state and beyond. They are also working to expand their agritourism operation, so keep an eye on their website for upcoming events and new product offerings. Most importantly, Natalie and her team will continue educating the public on the importance of dairy farms across the state and teaching people not only how dairy products are made but why they are an important addition to our regular diet.



# Dock Southern Farms draws on 131-year ag roots

Every Friday on social media, we post a Farm Feature Friday showcasing one of our dedicated North Carolina farmers. Cindy Marion, with Dock Southern Farms, is one of those farmers. The #FarmFeatureFriday campaign will run through December 2021 on our Facebook, Twitter and Instagram pages.

Agriculture and music are both things that originate in the soul and one family farm is tying both passions together to create a unique experience for their customers. Dock Southern Farms, located in Dobson, was started in 1890 by Will Southern and later passed down to his son, Dock Southern, who built the barns that still stand on the farm today. “I have always loved agriculture,” said Cindy Marion, Dock’s youngest grandchild, “playing in the cow pasture as a kid and watching my grandfather on the farm established that passion, making the farm immensely precious to me today.”

Cindy is the current owner and operator of Dock Southern Farm, but she is most well-known for her work as a child nutrition director, overseeing 18 schools in the county and being involved with the N.C. Farm to School program. “Working with the farm to school program and providing fresh, local foods for these kids has been one of the most rewarding things I have ever done,” she said, “in fact, it is one of the things that drew me back to the family farm.” The COVID-19 outbreak of 2020 changed the lives of Cindy and her children in more ways than one and ended up bringing them all back to the family farm.

Prior to 2020, Cindy’s three children, Will, Peyton and Jack, were all working in the music and theatre industry in Nashville and New York. However, with the onset of the coronavirus pandemic, those jobs were unfortunately lost, bringing all three children back to the farm. “It has been a hard experience in many ways but it has also brought us closer together,” said Cindy, “the kids are learning new skills and appreciating the hard work that goes into agriculture. They are doing things they have never done and I am grateful to them because I certainly could not have brought the farm back to where it is today without them.”

Although Dock Southern farms is still in a rebuilding period, they currently grow a variety of fresh berries and partner with many local farms across the community, including Patterson Farms Market & Tours, to provide fresh produce and locally made products to members of the community. “Currently for us it’s a lot of preparation, learning and partnering with farms around the area to provide products that our customers



want, need and love,” Cindy said, “and we are also extremely passionate about agritourism and providing an experience on our farm that is not only unique but that our customers want to come back too.” Last fall, they provided local pumpkins, a variety of games, home-made apple cider and live music, performed by the family, for visiting customers as a way to partner with and engage the community. “Its been incredibly rewarding to combine our passions of agriculture and music in a way that not only we enjoy, but the public enjoys as well,” Cindy said, “and I think my grandparents would be proud to see the farm as it is today.”

Products from Dock Southern Farms can only be found at the farm, but the experience will make your visit completely worth while. “The fresher your food the more nutrients you



Above, Cindy Marion and her children Will, Peyton and Jack are rebuilding the family farm in Dobson, growing berries, partnering with farmers in the area to offer customers other produce and exploring agritourism opportunities for the farm. Above left, the older photo shows Marion’s ancestors in the early days on the farm. At left, work on the farm keeps the family busy.

get,” said Cindy, “there is an irreplaceable value to buying your products from your local farmers and it means more to us than you will ever know.”

While you are on the farm, be sure to visit the farm animals, including their donkey, Willie Nelson. In the future, Dock Southern Farms will continue to grow local berries and possibly even venture into raising small animals such as goats and sheep. They will also continue to focus on community education and providing experiences for customers to come and enjoy being on the farm. If you catch them on a live performance night you may get to hear their family favorite “Down to the River to Pray” or personal songs written by Will, Peyton and Jack. Be sure to look them up on your music streaming preferences!

## Century Farms

(Continued from pg. 1)

state or on the property is not required.

Applications can be found at [www.ncagr.gov/paffairs/century/application.htm](http://www.ncagr.gov/paffairs/century/application.htm) and are accepted continuously throughout the year. You can download and print an application to fill out or contact the NCDA&CS Public Affairs office at 919-707-3002 to have an application sent to you. Proof of land ownership must be submitted with the application.

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Web site: [www.AgReview.org](http://www.AgReview.org)

**\*Ads must be typed or neatly printed**

## Horse Events

Sen. Bob Martin Agricultural Center, Williamston, 252-792-5111

Aug. 14 & 15... Just Horsin’ Rounds Open Horse Show. Contact Beth Tew, [www.justhorsinround.com](http://www.justhorsinround.com).  
Aug. 20-22..... NCQHA-D5 Endless Summer Horse Show. Contact Susan Daniels, 919-894-0600 or [www.NCQHA.com](http://www.NCQHA.com)  
Aug. 27-29..... Fallin’ into Autumn Horse Show. Contact Travis Alford, 252-450-5438, Richard Isley, 336-908-3302 or [www.EquineEventPlanning.com](http://www.EquineEventPlanning.com).  
Sept. 4 & 5..... NCHJA “C” Horse Show. Contact Emily Bates, 252-378-4474 or [williamston-huntercircuit.com](http://williamston-huntercircuit.com)

WNC Ag Center, Fletcher 828-687-1414

July 20-24..... Blue Ridge Classic Horse Show. Contact Liz Holmes at [Lizholmes1957@gmail.com](mailto:Lizholmes1957@gmail.com)

SouthEastern Ag Center, Lumberton 910-618-5699

July 5..... Horse & Tack Auction. Contact Brad Stephens, 828-390-0878.  
Aug. 2..... Horse & Tack Auction. Contact Brad Stephens, 828-390-0878.  
Aug. 7 & 8..... Carolina Paint Horse Association Show. Contact Lori Smith, 336-309-9470.  
Aug. 14 & 15... Cowboy Mounted Shooting. Contact Pamela Lohrey, 540-570-8785.

Gov. James B. Hunt Jr. Horse Complex, State Fairgrounds, Raleigh, 919-821-7400

July 7-11 ..... State 4-H Horse Show. Contact Lori Stroud, 919-515-5788 or [llstroud@ncsu.edu](mailto:llstroud@ncsu.edu)  
July 23-25 ..... NCHJA “C” Indoors. Contact Joan Petty, 919-669-9877 or [Horseshows@trianglefarms.com](mailto:Horseshows@trianglefarms.com)  
July 24 & 25 .... TWAH Show. Contact Kim Moser, 919-219-0256 or [scootin4me@yahoo.com](mailto:scootin4me@yahoo.com)  
July 31& Aug. 1Raleigh Summer Dressage I & II. Contact Janine Malone, 919-269-7307 or [jemrph@aol.com](mailto:jemrph@aol.com)  
Aug. 7 & 8..... Finally Farm Horse Show Series. Contact Lesley Jenks, 919-280-8087 or [final-farmsnc@gmail.com](mailto:final-farmsnc@gmail.com)  
Aug. 7 & 8..... Trianglewide Horseman’s Association TWAH Show. Contact Kim Moser, 919-201-3606 or [scootin4me@yahoo.com](mailto:scootin4me@yahoo.com)  
Aug. 13-15..... Triangle Farms Happy to Show. Contact Joan Petty, 919-669-9877 or [Horseshows@trianglefarms.co](mailto:Horseshows@trianglefarms.co)  
Aug. 27-29..... NCHJA “C” Indoors. Contact Joan Petty, 919-669-9877 or [Horseshows@trianglefarms.com](mailto:Horseshows@trianglefarms.com)  
Sept. 4 & 5..... Labor of Love Dressage Show. Contact Wendy Warner, 207-701-7779 or [competition@ncdcta.org](mailto:competition@ncdcta.org)

**\*Show dates are subject to change. Call ahead to confirm.**



# The Center for Pioneer Life shares a unique slice of farm life

Some people were born for a time such as this, others were born with an old soul that seems to date back to a previous era. Dylan Wilson, Farm Manager at The Center for Pioneer Life, has a true love and passion for the pioneer life in the North Carolina mountains and believes his soul was born and bred in that time period. “I often can’t believe that I get paid to do what I do every day because it’s as if I was trained my entire life for this position,” he said, “even though I love the pioneer time period and lifestyle, I know I was born in the right era to help keep their legacy alive for years to come.” Although the Center for Pioneer Life looks like a dream come true today, it actually started as a coincidence grown on a simple family farm.

In 1845, a mountain farmer named James Ray built a log house near Shoal Creek where generations of his family were raised until about 15 years ago. Before the building was torn down by the current owner, a man named Ralph Young, who recognized the buildings significance, purchased it, took it apart log by log and transported it to where the center is now located in Burnsville. “There wasn’t really a true plan for this farm before then,” Dylan said, “the family had always grown crops on this land, but once the log cabin got here the idea for the Center for Pioneer Life developed and has continued to grow ever since.”

Today the Center for Pioneer Life operates on the mission of preserving the legacy of Southern Appalachian pioneers and experiencing how they lived, and that is exactly the type of experience individuals receive when they visit. Not only is the log cabin mentioned above found at the center, but also a larger homestead, a chicken house, blacksmith shop and another cabin that Dylan recently built in the same style as those that early pioneers lived in. “Many people don’t know how to do box framing anymore, which is how



Above top, Dylan Wilson is the farm manager for the Center for Pioneer Life in Burnsville. Visitors can see and learn about life on a farm in the southern Appalachian mountains. (Photo credit Mercedes Jelinek.)

the newest cabin was built,” he said, “dirt floors and a chimney complete this cabin, giving it the true feel of a first settler home in our mountains.” Throughout the spring and summer, you can even find high school students performing stories of their ancestors on-site. Although this was unable to happen last year due to the COVID-19 pandemic, Dylan is hopeful that students will again provide this added experience in 2021. “When you visit our facility it truly immerses you in a life once lived. It’s like taking a step back in time,” he said, “you can feel the chill of life in the winter, hear the water running in the spring house, and gain a real understanding of what life was like for pioneers in our state.”

In addition to the buildings on-site, visitors can see how farming was done in those days, with horses. “My horses, Claude and Chubby, have been with me for about 15 years and they still

help me do all our farm work,” Dylan said, “from planting corn and wheat to potatoes, pumpkins and beans, my horses work just as hard as I do. I am honored to be one of the few remaining farmers to do life in this way and I enjoy teaching people the value of that.” The center also contains a small apple orchard on-site that has been there since the farms inception.

A typical day at the center for Dylan can often include a variety of tasks, but always starts by feeding Claude and Chubby. “They get into a routine just like people do,” he said, “once they have been taken care of and fed they are ready to take on the day with me and accomplish the tasks that need to be done.” From working the farm to finishing buildings, stacking hay, taking care of chickens and looking for Arrowheads, there is always plenty to do and Dylan certainly never gets bored. In fact, the hardest thing for

him is having to leave at the end of each day. “I love what I do. I love being here and living this lifestyle that I adore with my animals that have a special place in my heart,” he said, “so it is very hard for me to leave at the end of each day, even knowing I will be coming back the next morning.” Although he loves every part of his job, Dylan’s absolute favorite is seeing the faces of visitors light up as they understand the concept and importance of pioneer life. “When I take tours through the buildings and explain to people what each one was used for, where the pioneers slept and what they used as a freezer, my job comes to mean that much more as I see their eyes light up as they picture it and understand it,” he said, “that’s why we are here. To preserve the legacy and keep it alive. Any day that I am contributing to that cause is a job well done.” Tours and farm visits can

be made by appointment on their website or by calling 828-536-0337.

The Center for Pioneer Life partners with Participate Learning in Chapel Hill to bring international teachers to the United States and learn about life on a farm in the southern Appalachian mountains. “Before COVID-19 hit, we had several groups of teachers come out in 2019, stay for about a week or so and learn about the farming lifestyle” Dylan said, “I teach them all about our place here, its importance and what it means not only to me but to people across the state.” These teachers are then able to travel back home and teach students around the world about pioneer life and farming in the N.C. mountains.

The biggest misconception that Dylan faces when trying to educate people about the life of a pioneer is their personal viewpoint on the time period itself. “Some people believe that life back then was this terrible, difficult thing that people just had to sweat and live through and then others believe it was a whole lot easier than the way things are done now because in their eyes all they did was sit on the porch,” he said, “times may have changed but at the end of the day life is always middle of the row. There are hard times and there are good times but the pioneers worked hard, loved their families and lived well just like we do.”

In the future, Dylan hopes to continue growing into a fully working farm with milk cows, hogs and a barn on-site where hay can be stored and fundraising events held. He would love to get agriculture groups across the state involved in their efforts, including county 4-H clubs. Most of all, he hopes to continue impacting the lives of individuals around the state and beyond by educating them about the importance of our history and the life lived by those before us.

## Team Excellence

(Continued from pg. 2)

dollars went directly to help meat and seafood processors. Hampton may have been a slight exception as he came out of retirement from NCDA&CS to help spearhead the IMPEC team. However, he’s also been filling another role as the interim superintendent at the Central Crops Research Station in Clayton.

With approval from the N.C. General Assembly, the initial federal award from the CARES Act was \$10 million, and a second funding award brought the total amount to \$20.25 million.

The IMPEC team quickly worked together to setup the grant application and award process and then helped processors all along the way. Within the first three months, the team contacted companies, personally visited contacts, received applications, verified paperwork and awarded funding.

Hear how some facilities were helped by IMPEC in this video from NC Choices.

Many of the independent facilities that qualified for help have had outdated technology from 40 to 50 years ago. While the facilities were safe and clean, they technology and smaller spaces limited the ability to process more meat and seafood more quickly. The facilities also didn’t have the financial resources to upgrade to modern and expanded spaces. They didn’t get a full-on handout though. Each applicant that received assistance also had to pay up to one-third of its project’s cost.

“Yes, we did give out a lot of money, but the processors had to put their money into it too. That made the processors want to put money into something that was beneficial because they had skin in the game,” Hampton said.

While the IMPEC team worked with each facility, the NCDA&CS staff didn’t make decisions for the facilities. Hampton said each processor determined what its own limiting factors were, and they researched solutions.

IMPEC grants then helped finance those solutions. No two projects were alike. So the IMPEC team couldn’t just use a template or a one-size-fits-all solution. The team had to work with each facility in a way that was customized to each facility’s needs. It was a labor-intensive process, but Hampton believes it’s paid off.

“One year ago when I talked to farmers, they couldn’t get a date to harvest a steer for one year. Today I think we’ve made just about half the improvements that are to be made with the money to be spent, and people can now get a steer processed in about 30 days now,” Hampton said. “My estimate is that it’s resulting in a third to a 40 percent increase in processing across the state. That is significant. I think that’ll make a difference for decades.”

The fact that the team was working during the pandemic shouldn’t be overlooked either. Workflows had to be adjusted because the team members were often working separate

from each other. Hampton said there were lots of virtual meetings online and even meetings with the local business managers in parking lots to maintain distance. The pandemic also contributed to delays in construction and other areas as backlogs and staffing affected other industries needed for the facility improvements. Those delays have extended the team’s work. A third round of funding is expected to be approved, which will extend the team’s work even more.

“Thanks to this team, 57 companies have received help from the IMPEC program. Each grant was tailored specifically to the individual company’s needs, so we’re maximizing every dollar we award,” Troxler said during the online award ceremony. “Of course, the companies aren’t the only ones benefitting from the IMPEC program, though. Our state’s consumers, restaurants and schools are a lot less likely to see disruptions in the food supply too, thanks to this team’s work.”

Let’s not forget our producers, the farmers, who also benefit by being able to get their product out to consumers efficiently. That’s why I like to call the IMPEC program a win, win, win for our state. It is a success because of the commitment of this team.”

For Hampton, the team’s work is just a reflection of the department overall. He said many more people throughout the department have helped get the team what is needed all along the way.

“I’m proud to be a part of this department. The fact that we were recognized just shows that we’re all a team. Every time we needed something, someone in the department stepped up to help. We’re just an example of the team the entire department has,” Hampton said. “No one ever said that’s not my job. People just pitched in and got it done.”



# Classified Ads

Ads are run free for N.C. residents & can be submitted by mail to 1001 Mail Service Center, Raleigh NC 27699-1001; online at [www.AgReview.org](http://www.AgReview.org); or by fax to 919-733-5047. Ads *must* include name, address including zip code, phone number including area code, and *price or price range for every item* being sold.

Deadline for each issue is noon on the first working day of the month prior to publication.



## Bees, Supplies & Services For Sale

### NOTICE

N.C. law requires a permit to sell honey bees in the state, with the following exceptions: sale of less than 10 hives in a calendar year, a one-time going-out-of-business sale of less than 50 hives, or the renting of bees for pollination purposes or to gather honey. Contact Don Hopkins, state apiarist, NCDA&CS, 1060 Mail Service Center, Raleigh, NC 27699-1001.

**5-frame heavy nuc**, in cardboard nuc box, \$170; mated queens, \$35. Sam Bolick, Concord 704-795-3900.

**5-frame nucs** in pro-nuc box, no frame exchange required, \$145. Jeff Telander, Elon 919-618-8094, [telander@gmail.com](mailto:telander@gmail.com).

**8 established hives** in factory standard gums, \$175/hive. Tony Cantelmo, Lenoir 828-754-0083.

**5-frame nucs**, \$160; locally raised Italian queens, will mail upon request, \$30; new 2-frame manual extractor, \$275. Garry Whitley, Albemarle 704-982-0698.

**5-frame nucs**, \$170; queens, \$32.50; avail thru end of August; all supplies needed for beekeeping. John Pledger, Trinity 336-485-5137.



## Equipment For Sale

**Farmall super A**, 1950s era, \$4,000 firm. Jeff Farmer, Wilson 252-296-6913.

**NH 277 sq baler** w/ thrower, \$2,250; Cat D7 dozer, elec start, \$9,250; NH 55 rake, \$1,000. William Long, Mebane 336-376-6603.

**1964 Ford 4000** tractor, 5-spd, new tires, front end loader & forks, \$5,200; 1964 Ford 4000 tractor, 5-spd, \$4,500. Denny Barney, Mocksville 336-909-5180.

**Frontier RT1142** rotavator, 3 pt, \$1,200. Greg Lowe, Salisbury 704-239-5083, text only.

**1964 Ford Dexta** 2000 tractor, \$3,500. Don Stutts, Archdale 919-738-2296.

### FARM EQUIPMENT

**Hesston 540 rnd** baler, elec tie, all belts, lacings good, no issues, \$4,200. Gaylon Pitman, Burnsville 828-779-8257, after 3 p.m.

**1952 JD40** tractor, GC, good tires & sheet metal, RG, manuals, \$4,500. Donna Emerson, Bear Creek 336-516-0378.

**NH 472 haybine**, \$2,200; Hale irrig pump, pto, high pressure, \$1,400; grain auger, 6 in., 30 ft., pto, \$1,000. Johnny Sowers, Lexington 336-239-3020.

**Pto spring shaft** for bush hog or farm equip, EC, \$75. Jack Matthews, Charlotte 704-846-1903.

**Howe bush hog**, 10 ft., 3 pt, \$4,300; 55 gal sprayer, hand wand only, \$675; Cain hyd spear, 3 pt, \$750. Chris Witherspoon, Valdese 828-381-6857.

**MF 4-16 plow**, \$500. Henry Garrett, Liberty 336-685-4790.

**Dearborn Ford** plow, 2-bottom, no trip, \$150. Michael Andrews, Liberty 336-214-8684.

**Ford 3-16 trip** beam plow, field ready, good points & paint, \$375. Jimmy Houston, Statesville 704-873-7765.

**MF 135 diesel**, ps, 6-spd, GC, \$4,500. Garner Jarrell, Mt. Airy 336-648-4288.

**Grain box &** trailer, GC, \$300. J. Lloyd Mabe, Danbury 336-703-8232.

**1958 Oliver 550**, tuned up & serviced, low hrs., \$4,500 obo; Case VAC tractor, motor overhauled, \$2,000 obo. M.D. McKnight, China Grove 704-857-9595.

**Magnetos**, different makes & types, some w/gears, \$75 & up. Bill Payne, Madison 336-707-8840, 6-8 p.m.

**Bush Hog** brand 3210, EC, \$3,800 cash. Donnie Hardister, Denton 336-239-9411.

**JD 7 ft. direct** cut head, \$3,500; 6 ft. p/u head, \$2,500; last on JD 3950 forage harvester, EC; \$5,500/both. Paul Price, Goldston 919-837-5733.

**Gravity wagon**, 175 bu, \$2,000; NH 256 rolabar, \$1,750; GP 1006NT drill, \$25,000; JD 630 moco, \$17,500. Gerald Rayle, Pleasant Garden 336-382-3732.

**Hd scrape blade**, 6 ft., 3 pt, buyer loads, \$800. Marjorie Bridges, Zebulon 919-554-9547.

**NH 1033 stack** wagon, holds 105 bales, \$3,500. Johnny Harrison, Salisbury 704-639-0867.

**Vermeer 604K** baler, parts or restore, new pto shaft, needs bearings, \$850; NH haybine, FC, extra parts, \$850. Earl Hewitt, Cleveland 704-239-2011.

**Sawmill**, \$2,500; planer, \$2,500; \$4,000/both. Mark Crisco, Oakboro 704-984-2040, after 5 p.m.

**NH 273 sq baler**, field ready, EC, \$3,000. Dale Pardue, Hamptonville 336-468-2038.

### FARM EQUIPMENT

**4 JD rear wheel** wgts, #A3404R, 140 lbs. ea, \$150 ea. Rick Ingram, Greensboro 336-420-9253.

**McCormick Itnl** 209A moldboard plow, 16 in., GC, \$250. Charles McPherson, Mebane 919-563-3032, 10 a.m.-8 p.m.

**Itnl 240 tractor**, not running, needs restoring, 90% complete, wide front end, located Zebulon area, \$800. Kevin Byers, Snow Camp 919-601-0490, text.

**Ford tractor ind** front blade, w/cyl & hose, \$300; 1930 JD GP, rubber tires, \$1,850; 1936 JD BO, rubber tires, \$2,250. Joe Marion, Lewisville 336-766-5403.

**Ford 700 tractor**, ps, new tires & wheels, RG, \$3,500 obo. Francis Menius, Kannapolis 980-521-1216.

**NI corn picker** w/husking bed, 2-row, \$4,250; Pittsburgh RC151 rnd baler, \$750; Vicon rake, 3 pt, 5-wheel, \$350. Kevin Heavner, Lincolnton 980-429-6004.

**1952 JD B**, sheet metal EC, 1 owner, \$3,000; w/3 pt hitch, \$3,600; 1952 JD hyd cyl, \$350. Barry Lindley, Pittsboro 919-742-4009.

**2 Hale pumps**, 3 & 2 in., 29 sprinklers, 16-20 ft. & 15-30 ft. suction lines, 40 latch pipes, parts, trailer, \$5,200 obo. Ronnie Fish, Angier 919-669-9892.

**Cat Galion**, 12 ft. blade, ideal for leveling, \$18,000. F.D. Rivenbark, Burgaw 910-540-7161.

**IH 4140 skid** steer loader for parts, complete, \$700; 3-bottom plows, \$350. James Isley, Julian 336-263-1958.

**1940s JD A**, restored 12 yrs ago, under shed, \$3,500. Rickie Ogle, Hurdle Mills 336-597-9406.

**1990 Case 480E** backhoe, 1,601 hrs., new rear tires, good paint, numerous rebuilt cyl, 2nd owner, \$8,500. Dodd Linker, Clemmons 336-712-2484.

**JD 75 front end** loader, fits, JD 850, 950, 1050, \$4,000; Caroni estate mower, 6 ft., \$900; Kelley B15 backhoe, 3 pt, \$2,000. Craig Cooper, Wake Forest 919-414-6923.

**JD 6420** w/JD 620 loader, 3,500 hrs., cab, \$35,000. Rick King, Clemmons 336-817-6535.

**Woods HC60** Brushbull rotary cutter, single spindle, \$600. Beverly Bowen, Reidsville 336-708-6172.

### FARM EQUIPMENT

**Toro/Wheel Horse** 520H lawn tractor, twin cyl Onan eng, deck; parts or repair, \$150. Jeff McCallum, Charlotte 704-697-0685 or 564-3449, no texts.

**Horse drawn** hayrake, 10 ft; paper hay chopper silofiller; 3 pt wood saw; Case VAC tractor, M/M sheet metal, \$1,800. Allen Case, Canton 828-235-1675.

**Portable bandsaw** mill, cuts 20 in. logs, new, still in crate, \$2,900. Mark Jarrett, Reidsville 336-613-5425.

**NH Powerstar** T4-65 tractor, 4wd, cab, heat/air, loader, 160 hrs., LNC, \$44,500. H.O. Davis, Elon 336-260-7606.

**NH 451** mowing machine, has bent crank, good for parts, \$200. T.C. Berrier, Lexington 336-764-1051.

**Holland tobacco** setter, \$350. Kenneth Chilton, Pilot Mtn 336-374-2410 or 399-1973.

**14 pasture gates**, 8 x 14 tubular steel & alum, FC-EC, \$475/all or will separate. Tom Sladky, Reidsville 336-694-4046.

**Itnl 7272 Cub** Cadet tractor, low hrs., w/6 ft. Woods grooming mower, \$9,500. Y.D. Saul, Elon 336-213-6292 or 260-7606.



## Equipment Wanted

**5 ft. land leveler**. Tony Thomas, Randleman 336-267-5534.

**Ford 309 corn** planter plates; corn, beans, sorghum & filler plates; Ford 309 corn planters for parts. Charles Chamelin, Kernersville 336-769-4418.

**Grain dryer**. Montie Roland, Sanford 919-412-0559, [montie@montie.com](mailto:montie@montie.com).

**Compact manure** spreader for horse manure. Joe Craver, Winston Salem 336-847-0053.

**Harry Ferguson** post hole digger, 3 pt. David Curry, Lexington 336-798-1840.

**Drawbar wgt** for 3 pt hitch, 500+ lbs. Denny Barney, Mocksville 336-909-5180.

**Utility deck** for Craftsman tractor. John Yancey, Clinton 910-592-5376.

**Factory fork attach** & bucket for Long 5320 front end loader; quick attach, not skid steer. Gary Michael, Lexington 336-239-3717.

**Used disc harrow**, 4 ft. or 5 ft. wide, GC. Cheryl Atkins, Pikeville 919-273-8656.



## Farm Labor For Sale

**Farm fencing**, woven wire w/wooden posts, board, other types, \$6.15/ft. labor or less. David Watterson, Lexington 336-989-8829.

**Pasture cleanup**, bush hogging, down tree/brush removal, gravel driveway repair, other labor, \$60/hr. DeVane Williard, Randleman 336-362-6242.

**Vert & horz** mowing, ponds, dams, property lines, other; food plot setting & plowing, \$65/hr. + deliv. Roger McKenzie, Jackson Springs 910-528-2293.

**Electric fence** box repair, afw, tsc, ssc, parmak, \$15/hr. Bobby Nichols, N. Wilkesboro 336-927-2850.



## Farmland For Sale

**Land for sale must consist of at least 3 acres and be used for agricultural purposes, i.e. cultivation, raising livestock and/or other farm commodities.**

**Advertisers must indicate use of land.**

**26+ ac Davidson co**, some woods, meadow, good creek; for farming, deer, turkey, \$150,000. Brenda Haywood, Lexington 336-479-6227 or 250-5496.



## Farmland Wanted

**Land to lease** for deer hunting, w/in 1 hr. drive of Lexington. David Watterson, Lexington 336-989-8829.

**Deer hunting land** to lease, Piedmont area, ref avail. Jim Bumgarner, Kernersville 336-338-1315, lv msg.

**Land to lease** for deer & turkey hunting, Rockingham, Guilford, Caswell or Stokes co. Aaron Stutts, High Point 336-259-5286.



## Hay & Grain For Sale

**Hay**, in shed, never wet, 4x4, \$35; 4x5, \$40. Phillip Cole, Burlington 336-264-4143 or Preston, 336-447-5593.

**Horse quality** hay, deliv avail, \$35/rl. H.O. Davis, Elon 336-260-7606.

# Don't forget to renew your Agricultural Review

The renewal card was on the front page of the June issue of the newspaper. Just cut it out and mail it in, or go online to [www.agreview.org](http://www.agreview.org).



## HAY &amp; GRAIN

**Horse quality hay**, orchard grass/fescue, \$35/rnd bale; orchard grass, \$5/sq bale. Johnny Sowers, Lexington 336-239-3020.

**8 bales 2020 hay**, 5x5, barn kept; would like to sell to same buyer, \$20/bale. Jack Carpenter, Whitsett 336-601-4991.

**Fescue**, 4x5 rnd, net wrap, no rain, sheltered, on pallets, \$40-\$45/bale. Rick Ingram, Greensboro 336-420-9253.

**Fescue/orchard grass**, sq bales, \$5; rnd bales, \$25. T.C. Berrier, Lexington 336-764-1051.

**2021 fescue**, 1st cut, 4x4 rnd, cow & horse quality; deliv avail w/in 50 mi, \$40/bale. Scott Beasley, Denton 336-239-7602.

**Orchard/fescue**, spring 2021 cut, rnd bales, equestrian quality, 99% weed-free, barn stored, \$35/rl. David Carpenter, Whitsett 336-337-4638.

**Horse quality fescue**, spring 2021 cut, no rain, can deliv, \$6/bale. Allen Moore, Summerfield 336-706-1157.

**Fescue/orchard grass**, 2021 cut, rnd bales, horse quality, sheltered, \$40/bale. Gene Small, Summerfield 336-951-2152.

**2019 orchard grass**, horse quality, 45-50 lb. bales, \$5.50/bale. Kenneth Chilton, Pilot Mtn 336-374-2410 or 399-1973.

**Horse quality hay**, spring 2021 cut, no rain, \$5/sq bale. Vernon Hill, Mt. Pleasant 980-621-5091.

**2021 orchard grass**, \$8.50/sq bale; horse, sheep, goat fescue, \$7/bale; rnd, \$30/bale. Barry Lindley, Pittsboro 919-742-4009.

**Fescue/orchard grass mix**, spring cut, \$4.50/sq bale. Alan Clodfelter, Thomasville 336-848-1551.



## Horses &amp; Supplies For Sale

**PLEASE NOTE: All equine 6 mos. or older must have a current negative Coggins test. Advertisers must supply the accession number of test, the name of lab doing the test, the date of test and results for each equine advertised.**

**Male donkey**, 2 ½ y/o, loves people, peppermint candy, free. T.L. Cox, Cameron 910-245-4530.

**Lrg horse barn** for rent, 180 ft., 8 stalls, riding rink, 6 ac pasture, fencing, inclds water, \$450/mo; mobile home avail. Dianne Watterson, Lexington 240-498-0733.

**Horse manure** mixed w/shavings, you load, free. Brenda Casteel, Denton 336-242-4153 or 859-3710.

**Ring drag** pasture harrow, hd steel links, 6 x 8, \$250. K. Downs, Wake Forest 919-414-5108, text.



## Horses &amp; Supplies Wanted

**2 miniature jenny** donkeys, younger. Ron Locatis, Kannapolis 704-794-3439.



## Livestock For Sale

**KuneKune AGH** cross piglets, \$180 ea; Vietnamese potbelly cross piglets, \$150 ea. Lacey George, Sanford 919-444-9493.

**French Alpine** dairy goats, Wethers, 4 m/o, \$125 ea; reg doelings, 4 m/o, \$150-\$250 ea; milkers avail. Nancy Hobson, Pittsboro 336-684-2240.

**Beefmaster yearling** bulls, reg, huge epd's, \$2,000. Tripp White, Vale 980-522-7366.

**Boer buckling**, dob 1/21, not reg, \$100. Dana Lippard, Mt. Ulla 704-798-2902.

**Spanish goats**, pure Baylis bloodline, 1 herd sire, \$400; 2021 bucks, \$225. Gurney or Joshua Davis, Trinity 336-431-6248.

**Charolais bulls** & heifers, 7 mos & up, pb, polled, gentle, reg sires, \$850 & up. Johnny Harrison, Salisbury 704-639-0867.

**2 heifers**, 50/50 Jersey/Guernsey; ¾ Guernsey, ¼ Holstein, dob 9/20, \$600 ea; Guernsey/Holstein cow, \$1,000; Jersey heifer calf, \$600. Steve McKnight, King 336-994-2725.

**Reg Blk Angus** bulls, great epd's, Cowboy Up & Freightliner blood, gentle, weaned to breeding age, \$800 & up. Danny Dennis, Mt. Gilead 910-571-1114.

**Blk Angus herd** bulls, steers & heifers, Traveler, GT Maximum & 727 Executive bloodline, \$700 & up. Tim Moss, Graham 336-376-3773, 5-11 p.m.

**Polled Hereford** bulls, 1½ y/o, very gentle, reg bloodline, \$800-\$1,200. Nancy Barlow, State Road 336-874-2166.

**100% NZ bucks**, 6 mos & up, commercial or reg, Heslington Sesame, Titan's Hammer, Hobo/Pango, \$400 & up. Linda York, Ramseur 336-953-1366 or 824-4333.

**2 reg SimAngus** bulls, 20 & 22 m/o, 1 ai Raising Cain, \$2,000 ea. Aaron Snow, Hamp-tonville 336-244-2926.

**Male fainting goat**, dob 5/24/21, \$200. Joan Culber-son, Silk Hope 919-259-6139.

**Bred SimAngus** heifers & cows, blk, polled, bred for fall & winter calving, \$1,000-\$2,000. William Pyle, Franklinton 919-215-5677.

**Polled Hereford** bulls, \$750 & up; bred heifers, \$1.20/lb; heifers ready to breed, \$1.25/lb. Randy Davis, Elon 336-263-8163.

**Reg Angus bulls**, 20 m/o, easy calving, Rampage, Bruiser, CC&7 bloodlines, \$2,100-\$2,500. Kim Starnes, Salisbury 704-640-5875.

## LIVESTOCK

**Reg Hereford** heifers, \$800-\$1,200. Danny Blake, Mt. Gilead 910-428-7619.

**13 bred Holstein** heifers, due to calve in August, \$1,300 ea. Clayton Smith, Ennice 336-200-2059.

**Reg St. Croix rams**; ewe lambs, St. Croix x, Texas Dahl x, Katahdin; grown proven ewes, \$250 & up. Cindy Stephenson, Mocksville 336-831-3110.

**Feb/Mar ewe and ram** lambs off comm. Katahdin ram and comm. ewes. \$200 and up; Mar/Apr buck & doe kids off Spanish meat buck and commercial does, \$125 and up. Mark Mills, Peachland 704-254-5724.



## Poultry &amp; Supplies For Sale

**6,000 started** pullets, vaccs, debeaked, \$8 & up. E.D. Snider, Staley 336-708-2998.

**California**, bluescale, Gambel, other quail; 8 varieties bobwhite; partridge, Philby, chukar, Hungarian, \$3 & up. Jimmy Furr, Stanfield 704-888-0213.

**Adult Muscovy** ducks, male, \$20 ea; female, \$35 ea; ducklings, less than 12 w/o, \$7 ea. Lacey George, Sanford 919-444-9493.

**Guinea keets**, variety of colors, hatching regularly, \$3 ea. Charles Moore, West End 305-807-9898 or 910-295-6953.

**Molted Coch**in bantams, 3 roosters, dob 1/21, \$10 ea; possible 2 hens if wanting a pair. Terry Sharpe, Lexington 336-848-4315.

**Orders for blk** shoulder & India blue peacock chicks, \$25 & up. Richard Simmons, Clarendon 910-640-7114.

**Marble teal ducks**, \$100/pair; tufted Roman geese, \$20 ea. Martin Dover, Shelby 704-300-0341.

**Ameraucana bantams**, full blood, blue egg layers; mille fleur booted bantams, full blood, \$5 ea & up. Robert Burns, Holly Springs 919-552-6420.

**Australian blk** swans & mute swans, \$400 & up; Cape Barren geese, \$400 ea. Jim Simpson, Indian Trail 704-361-6497.



## Poultry &amp; Supplies Wanted

**Peahens**. Steve Wiles, Winston-Salem 336-908-2551.



## Seeds &amp; Plants For Sale

**PLEASE NOTE:** Individuals or businesses offering nursery stock for sale in North Carolina are required to obtain either a nursery or nursery dealer license. For more information, contact the NCDA&CS Plant Industry Division at 800-206-9333 or 919-707-3730.

## SEEDS &amp; PLANTS

**Blueberry plant** variety, early, mid, late season; lrg order discount, covid handling procedures, \$3.50-\$15. Michael Crippen, Garland 910-529-1469.

**Boxwood bushes**, 2-5 ft., around 400 avail, buyer digs, \$10 ea. Rhod Lowe, Salisbury 704-202-9605, Mon-Sat, 8 a.m.-6 p.m.

**Rabbiteye blueberry** plants, 14 m/o, potted, Premier, Climax, Tifblue, Powderblue; NCDA reg, lrg order discount, \$7 ea. Michael Roberson, Trinity 336-882-3488.

**Sunflower seeds**, 12-14 lb. flower, 15-18 in. diameter, SASE & \$3/25 seeds; \$5/50 seeds. N. Smoot, 6227 Welborn Rd, Trinity, NC 27370.

**Cockscomb seeds**, huge blossom head, crimson color, 18 in. stalk, about 200 seeds, SASE & \$3 cash. Barry Cox, 6225 Welborn Rd, Trinity, NC 27370.

**Scuppernong & muscadine** vines, 3-4 ft., healthy, potted, several varieties, \$15. Bob Whitaker, Mocksville 336-469-4822, no texts.

**Native perennials**, wide selection, full flats of 18, \$49.95 ea. Greg Bruhn, Raleigh 919-790-0480.

**Variegated liriop**e, aka monkey grass, 1 gal pots, discount for 50 or more, \$2.50 ea. Danny Blake, Mt. Gilead 910-428-7619.



## Seeds &amp; Plants Wanted

**Little cob white** corn seed. Mary Bumgarner, Thomasville 336-472-6441.

## Small Animals For Sale

**Tennessee redback** rabbits, ground started, \$12 ea. Mark Hinson, Goldsboro 919-734-7800.



## Supplies For Sale

**Metal roof**, 12 x 12, open shelter, bolted channel frame, \$80. Duane Kirschenman, Winston Salem 336-765-0968.

**45 fence posts**, 3 ½ in. wide, 5 ft. long, GC, \$5 ea; new water pump, #SEB2YLE3C, 3.5hp, \$300. J. Lloyd Mabe, Danbury 336-703-8232.

**Natural gourds**, several sizes, sm to lrg, for bird houses/crafts, clean environment, \$2 ea. Bob Whitaker, Mocksville 336-469-4822, no texts.

**Fire extinguisher** off combine, pressurized water type, stainless steel, 2 ½ gal, refillable at home, \$35. Gary Michael, Lexington 336-239-3717.

**Food grade** water totes, 275 gal, \$100 ea; water barrels w/faucets, \$30 ea; metal burn barrels, \$10 ea; other items. Jeff Brittain, Hickory 828-327-4782.

## FARM SUPPLIES

**Myers shallow** well pump, 110 or 220v, 1hp, EC, \$175. Jack Matthews, Charlotte 704-846-1903.

**2 Troy-Bilt** Quantum Power gas motors, 5hp, self-propelled; yard vac, chipper/shredder, \$279 ea, \$300/both. Joe Pope, Cedar Grove 919-698-6574.

**Log tobacco barn**, 18 x 18, \$1,000 obo. Kenneth Chilton, Pilot Mtn 336-374-2410 or 399-1973.

**2 mobile home** axles, for scrap or parts, free. Jeff McCallum, Charlotte 704-697-0685 or 564-3449, no texts.

**2 cement mixers**, \$400 ea or \$700/both. Rickie Ogle, Hurdle Mills 336-597-9406.



## Supplies Wanted

**Blk locust rails**, hand-split. Donald Jones, Mocksville 336-998-5384.

**Nursery pots**, 300 size/trade 1 gal. Rex Hovey, Charlotte 704-545-9760.



## Trucks &amp; Trailers For Sale

**Farm trailer**, 16 ft., \$1,500. D.L. Beane, Trinity 336-431-5083.

**2012 F-250**, 4 x 4, 6.7 power stroke, 276,000 mi, bed locker, tow pkg, bed locker, TracRac, VGC, \$25,000. Tom Gale, Liberty 336-339-1070.

**1986 Dodge Ram** 150 SE, single cab, no bed, \$1,500; 1985 Dodge Ram 150 SE, 360 v8 eng w/computer, \$800. Harold Adams, Piney Creek 336-359-2979.

**Steel flat bed** for 1-ton, 8 x 10, \$500. Henry Garrett, Liberty 336-685-4790.

**1985 Ford 9000** truck, 93,000 mi, GC; Montone dump trailer, 26 ft., GC, \$29,000/all. Kenneth Ladd, Harmony 704-546-2172.

**2021 Calico** stock trailer, 16 ft., bumper pull, \$5,995 & up. Y.D. Saul, Elon 336-213-6292 or 260-7606.

**2001 Silverado**, ext cab, 2wd, new tires, slimline bed cover, has a lot of mi, driven daily, 1 owner, \$7,495. Joe Pope, Cedar Grove 919-698-6574.

**1966 Ford F100** truck, short bed, 352 eng, all orig, runs/drives, \$9,000. Robert Johnson, Kernersville 336-788-8402.

**Cow trailer**, 4 x 8 double axle, pin hitch, tongue jack, sliding rear door, mesh wire sides, wood floor, GC, \$400. Tom Sladky, Reidsville 336-694-4046.

## Read more on ag

To keep up with the latest on the N.C. Department of Agriculture and Consumer Services, check out the department's blog at [www.ncagr.gov/blog](http://www.ncagr.gov/blog).



# Automation at research stations steering farm work

*This is the first in a two-part series on automation at the state's research stations.*

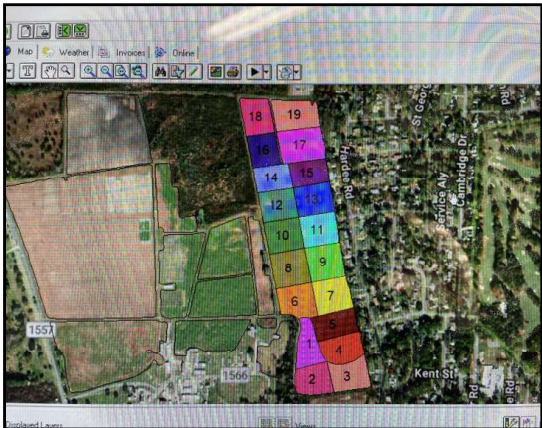
North Carolina's 18 research stations are often thought of as a big piece of agriculture's future. The research done on the stations helps farmers find better, more productive ways to produce more food and fiber for a growing population.

To keep moving agriculture into the future, the research stations are implementing several technologies that involve automation. That includes automated steering of tractors and even some automated planting and automated application of insecticides and fertilizers. Automation also helps milk and feed calves while also regularly weighing them and detecting other elements of their health. The automation helps create better data for research, make work a bit more manageable and improve the way livestock and crop health are monitored.

The automation in tractors and attached equipment is highlighted below. More details about automation in milking and calf feeding will be shared in a future Part Two.

Most stations now have at least one GPS-guided tractor. The Caswell and Lower Coastal Plain stations in Kinston use five tractors with steering guidance, commonly called auto-steer. The technology is so important for research stations, there's a precision agriculture committee to help the stations stay abreast of advances and how to implement the technology.

Evan Taylor at the Kinston stations is on the committee. He says the auto-steer technology is usually added on to tractors, guiding them through the field so that a driver is only needed to make turns at the end of rows. The systems cut down on the fatigue a farmer would have from driving a tractor all day, and they can make it a lot quicker and easier to lay out, plant and maintain a study plot. Traditionally, laying out plots has required workers or researchers to pull out measuring tapes and flags to mark the ground. While that process hasn't been completely eliminated, stations are adopting laying out test fields with GPS-guided tractors that create precise dimensions and rows. The



**Top photo, a GPS-guided tractor equipped with auto-steer technology plows consistent rows. Pictured bottom right is a display screen of a GPS-guidance system in the tractor. Bottom left shows a field divided into sections for soil sampling.**

automation makes it a lot easier for one person to do alone, and it's especially helpful in very large fields like a 60-acre test plot at the stations.

That precision is the big advantage. The GPS-guided steering ensures evenly spaced rows, minimizing narrow and wide rows, which is important for consistency in research. Taylor said it reduces variation that's naturally part of human operation. That can make a difference in field studies.

"The goal is to make your fields as consistent as possible because anytime you can do that you've helped the researcher," Taylor said. "At the end of the day for us at the stations it's all about data quality, and if we can use this technology for better data quality, that's what we want to do."

The auto-steer function on tractors can be easily set up while in the tractor, using interactive screens to activate the GPS-guidance. The tractor just follows lines that have been set for it. In some cases, the automation is taken a step further in order to control planting,

spraying or fertilizing equipment attached to tractors.

Taking advantage of automation on those pieces of equipment takes more planning – usually beginning with sampling soil throughout a field. The field is divided into sections, and GPS guides where to take a sample in the middle of each section of the field. The soil samples are then tested, and results show variations in nutrient levels, soil pH and other elements of the soil. (Soil samples from research stations are sent to the Agronomics Division's soil lab.) Computer software can then create a "prescription map" for the field that shows soil data for each section and where certain things such as fertilizer are needed most.

That software is linked to the GPS-guided tractors and automated equipment, so the prescription map can be uploaded to an automated fertilizer spreader. Then, as it goes through the field, it puts out fertilizer where it's needed. The automated features of the tractor and the automated features of

the spreader work together to adjust the rate of output, so just the right amount of fertilizer is put out in just the right areas. It's called a variable rate application.

Again, the goal is to make the field as uniform as possible so it's a good base for research. So each section of the field gets a custom amount of fertilizer or lime, for example, in an effort to create that soil uniformity across the entire field.

Similar automation can be used when spraying a field with a liquid fertilizer, defoliant, or pesticide. Each section may need a different amount of treatment, and the automated equipment can make those adjustments based on the prescription map.

Ivy Lanier at the Cherry Research Farm says there's even a "smart" planter at the station in Goldsboro that can detect certain elements of the soil and also use a prescription map. It can determine the amount of down force needed to keep the planter in the ground, and it can adjust to

plant seeds at a consistent depth. It can also detect soil temperature, moisture, soil compaction and how much pressure to apply to close the seed furrows. Using a prescription map, the planter can also adjust how much fertilizer or insecticide to put in the seed furrows based on what's needed in different areas of a field. It can even plant two different types of seeds based on the prescription for parts of the field.

Again, the goal is consistency and improved yields. The automation help makes even minor adjustments that could make a difference in squeezing out every bit of yield possible in each field.

"For every day that one plant comes up after another plant on the same row, there's a yield lag because they're going to be picked on the same day, and one of them may not be at optimal yield because they came up at different times."

Lanier said Dr. Gary Roberson, a professor and researcher at N.C. State, has for several years been testing prescription maps and variable rate applications of nitrogen on cotton. Lanier believes the ultimate goal is to use automated equipment to detect what plants need in a field and adjust the spraying or spreading in real time instead of using prescription maps. That type of automation would shorten the current process of testing spots in a field, then putting that data into a map and then using that map to control the rate of application on the field.

Combining GPS-guided tractors with automated spreaders or sprayers can also cut down on costs. Variable rate sprayers eliminate excessive spraying, and they also automatically cut off when the GPS indicates the end of the row is reached. Some research has shown that automatic cutoff could save farmers about 15 percent on their chemical costs. More research could increase that savings even more and help farmers with a major bill.

"There's promise because there is tremendous potential in how automation can help," Lanier said. "We want to see how we can make things better for farmers who don't have the time or resources to figure out the best options like we do."

## July AgroTips

### Mulch to prevent blossom-end rot of tomatoes.

If garden soils have adequate moisture and a pH in the range of 6.3 to 6.5, tomatoes are not likely to have blossom-end rot. Although this common problem is largely due to calcium deficiency, fertilization is not usually the answer. Any soil with a pH of 6.3 to 6.5 will contain enough calcium. However, during dry periods, plants cannot take up the calcium that is there. If your soil pH is good, you can optimize calcium availability by managing soil moisture. Make sure your plants get an inch of water each week, but be careful not to overwater! Apply 2 to 4 inches of mulch (pine bark, straw, leaf compost or other organic material) to help the soil retain moisture.

### Collect cotton tissue samples.

Collect tissue samples (MRMLs + detached petioles) weekly beginning at early growth (at least by matchhead square or one week before first bloom) and continuing for three to four weeks after first bloom. Follow current NCDA&CS cotton tissue sampling protocol: [www.ncagr.gov/agronomi/pdffiles/14cotton.pdf](http://www.ncagr.gov/agronomi/pdffiles/14cotton.pdf).

### Collect other agronomic samples as needed.

### Forages

Note: Forage samples for animal feed analysis should be sent to the NCDA&CS Food & Drug Protection Division. The plant tissue analysis service offered through the NCDA&CS Agronomic Division provides nutrient information relevant to crop fertilization not animal nutrition.

### Home & Garden

Take soil samples now to prepare for fall planting projects such as vegetable gardens, tree and shrub installation and renovation/maintenance of cool-season lawns. Remember: 1) Do not wait until fall to submit soil samples for home landscape projects. There is a fee for soil tests in late fall and winter. 2) You can submit your soil sample information online through PALS all year!

### Nursery Crops

Collect pour-thru leachate solution samples to monitor pH, electrical conductivity (EC) and nutrient levels.

### Tobacco

Collect tissue samples five to 10 days before each anticipated leaf harvest to determine ripeness. An appropriate sample consists of 10 to 12 leaves from the appropriate stalk position.